

# Drought Task Force Summary

## 20 August 2012

Dr. Dennis Todey

South Dakota State Climatologist

SDSU Extension/AES/ABE

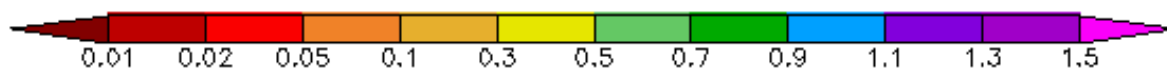
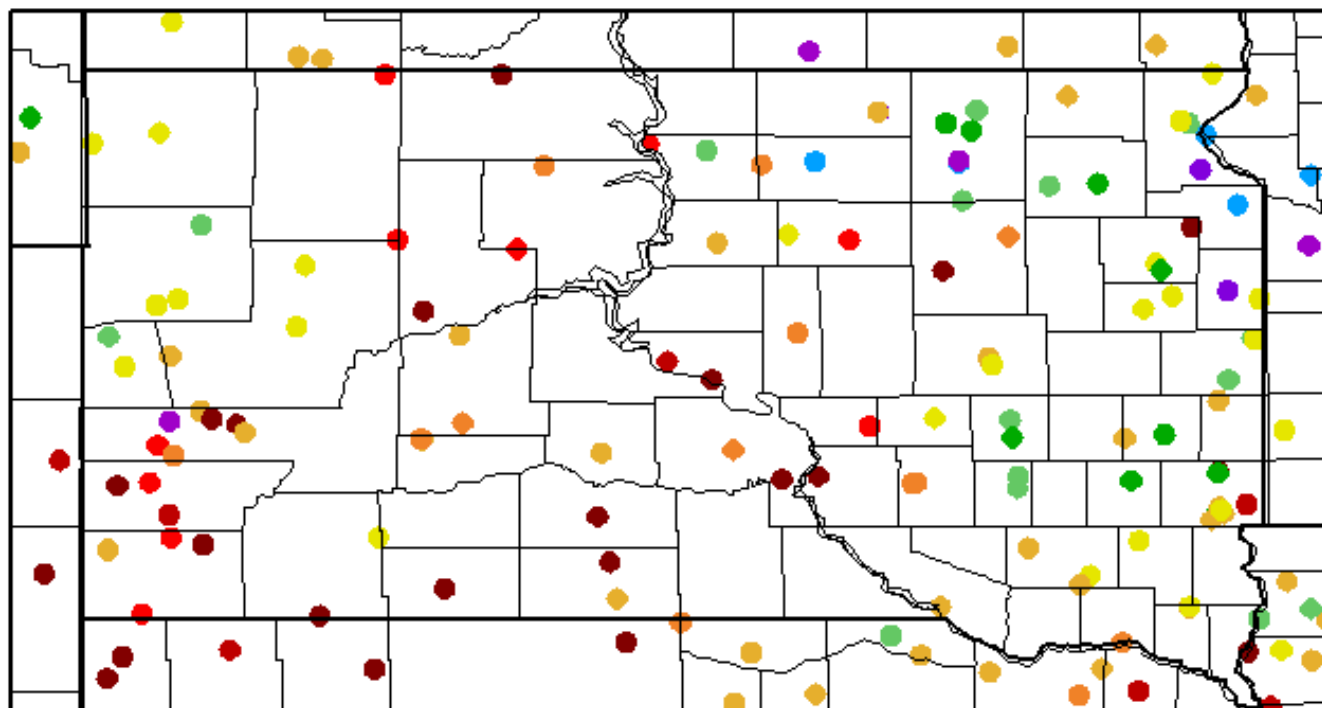


# Drought Issues Summary

- Few DM Changes in last few weeks
  - Cooler conditions
  - Rainfall still not enough to make changes
  - Soil moisture not responding many places
- Crops
  - Corn being removed
  - Soybeans seemingly OK
  - Winter wheat planting?
- Transitioning to water/environmental drought
- New Outlooks – a little optimism



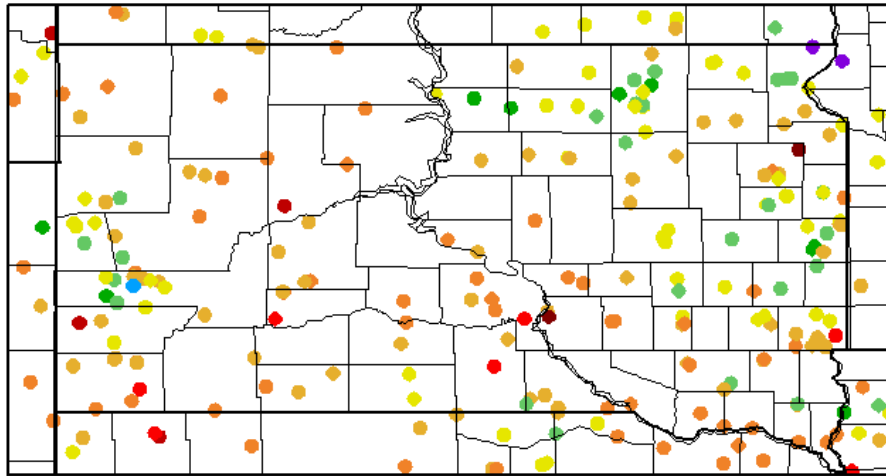
Precipitation (in)  
8/12/2012 – 8/18/2012



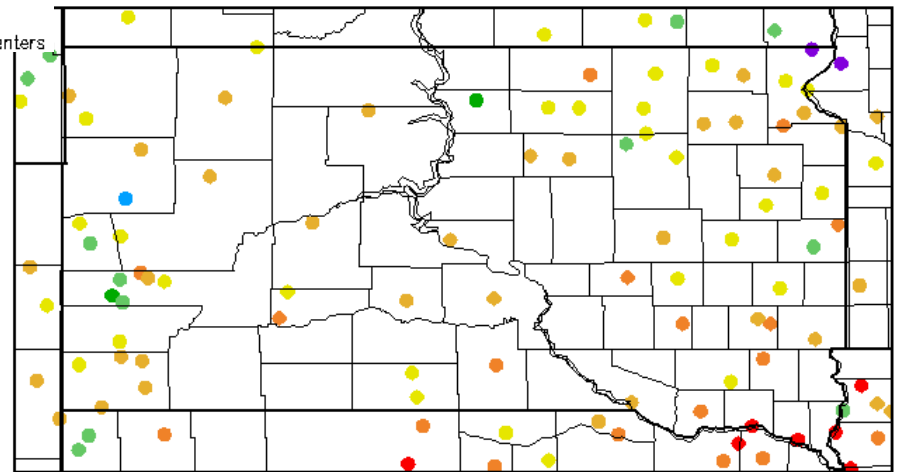
Generated 8/19/2012 at HPRCC using provisional data.

Regional Climate Centers

# Precipitation (in) 7/20/2012 – 8/18/2012



# Departure from Normal Precipitation (in) 7/20/2012 – 8/18/2012



Generated 8/19/2012 at HPRCC using provisional data.

Regional Climate Centers

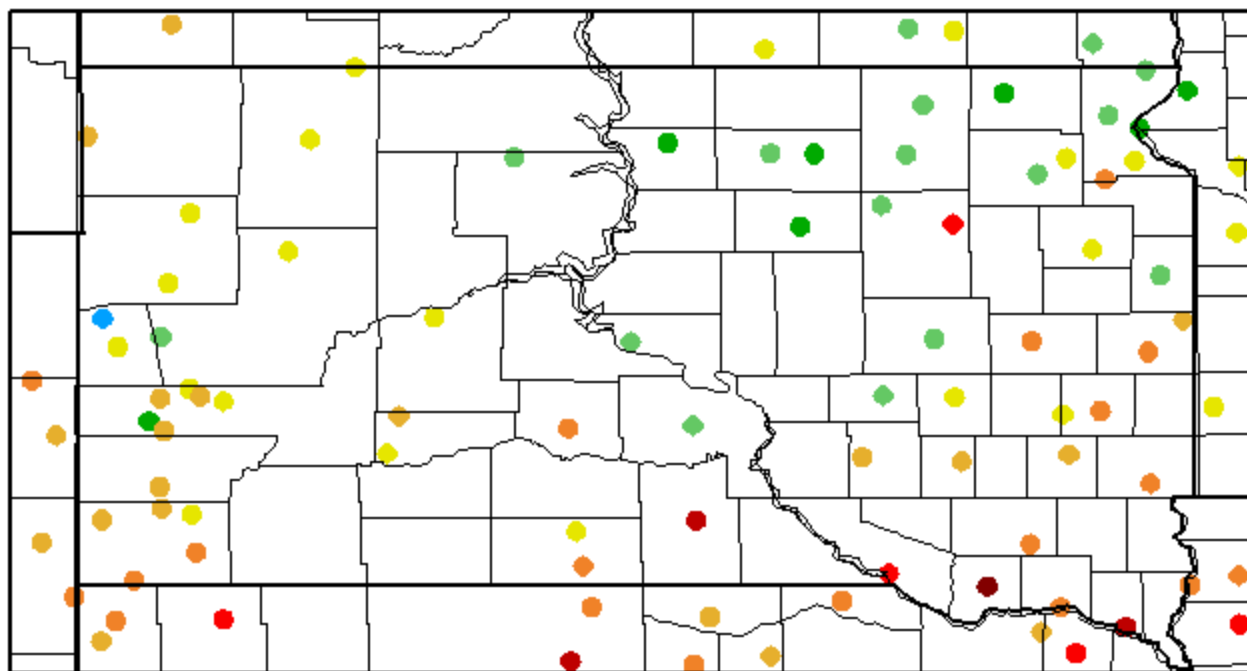
Generated 8/19/2012 at HPRCC using provisional data.

Regional Climate Centers



<http://www.hprcc.unl.edu/maps/current/>

# Departure from Normal Temperature (F) 7/20/2012 – 8/18/2012



Generated 8/19/2012 at HPRCC using provisional data.

Regional Climate Centers

# U.S. Drought Monitor

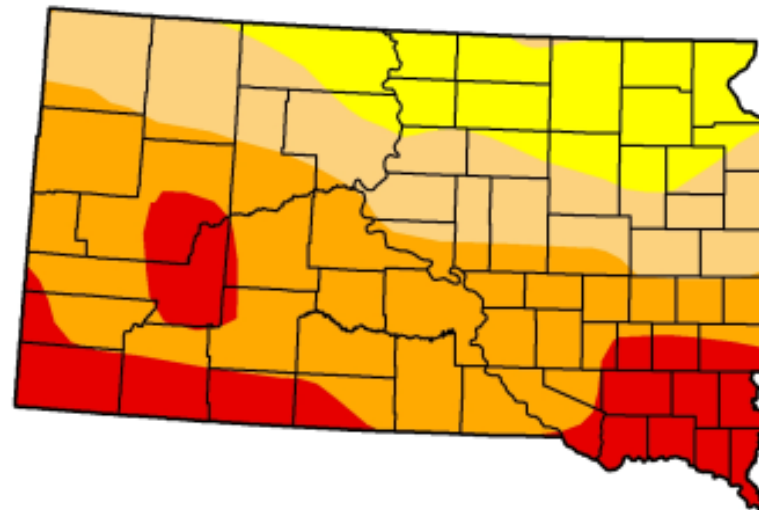
## South Dakota

August 14, 2012

Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	0.00	100.00	82.78	59.22	18.11	0.00
Last Week (08/07/2012 map)	0.00	100.00	87.69	60.73	20.19	0.00
3 Months Ago (05/15/2012 map)	75.13	24.87	2.16	0.00	0.00	0.00
Start of Calendar Year (12/27/2011 map)	48.14	51.86	13.86	2.11	0.00	0.00
Start of Water Year (09/27/2011 map)	71.37	28.63	7.36	0.00	0.00	0.00
One Year Ago (08/09/2011 map)	95.64	4.36	1.17	0.00	0.00	0.00



### Intensity:



The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

<http://droughtmonitor.unl.edu>



Released Thursday, August 16, 2012

Michael Brewer, National Climatic Data Center, NOAA



# U.S. Drought Monitor

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## South Dakota

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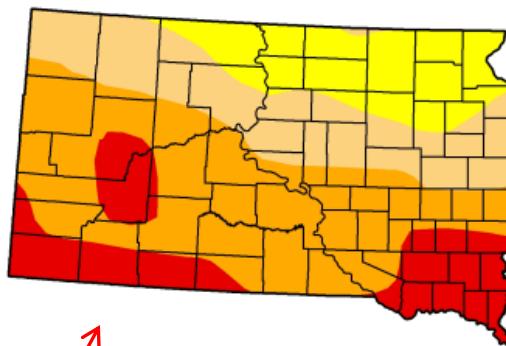


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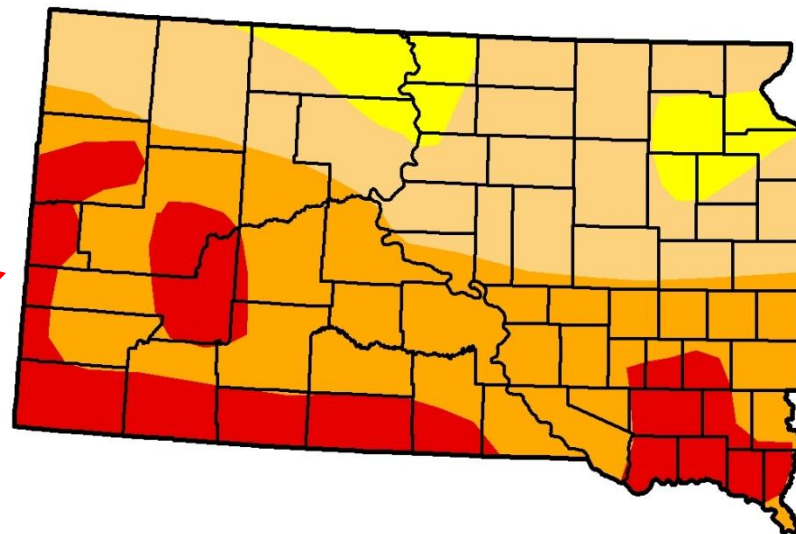


Released Thursday, August 16, 2012  
Michael Brewer, National Climatic Data Center, NCDC

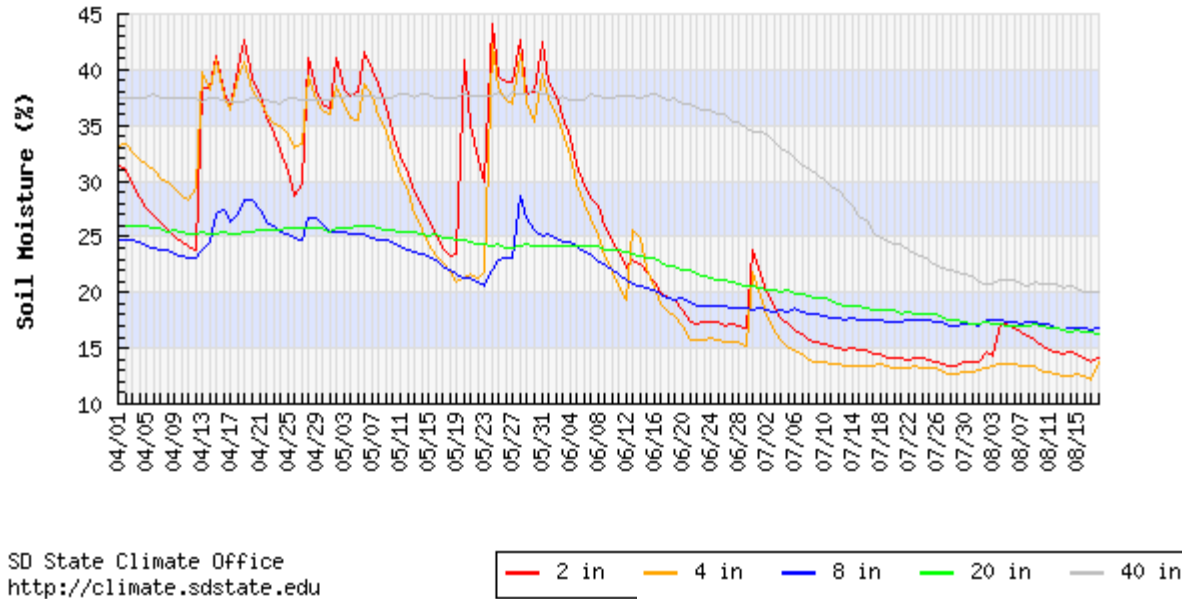


Last Week

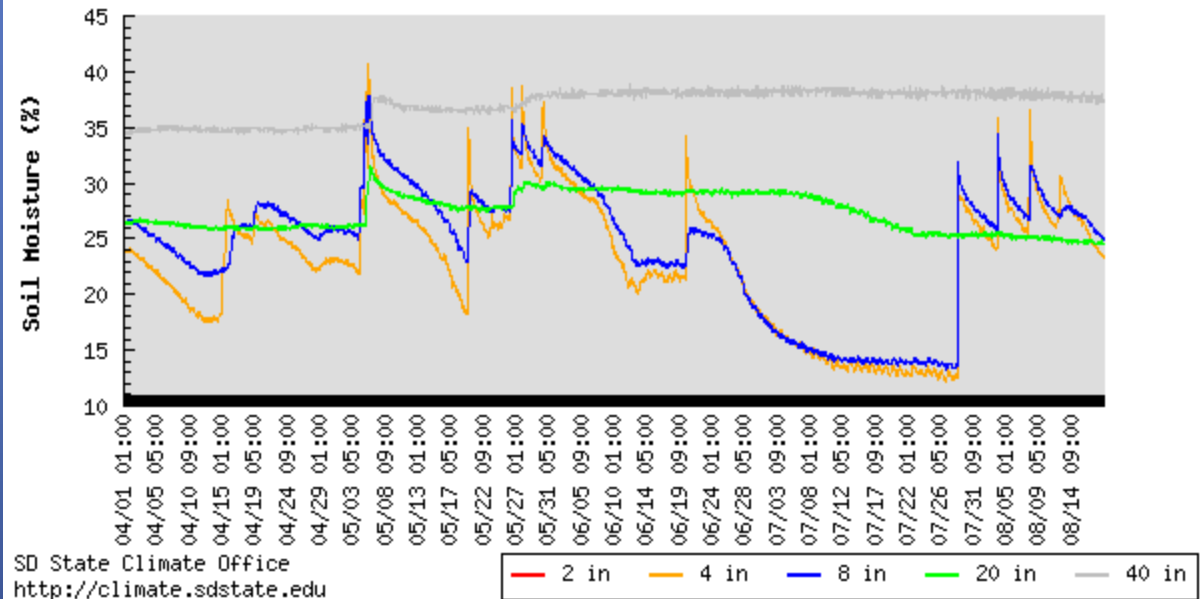
24 July



Soil moisture for BERESFORD (4/1/2012 - 8/19/2012)



Soil moisture for BROOKINGS (4/1/2012 - 8/19/2012)



SD State Climate  
 Office  
 Soil Moisture

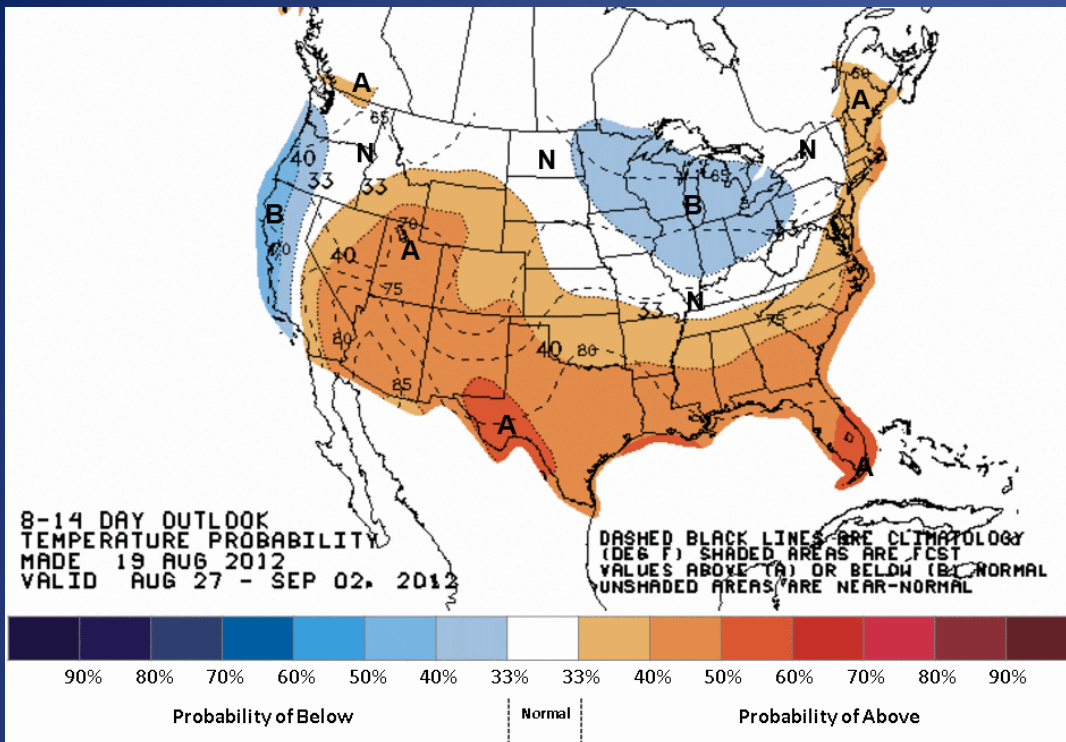
<http://climate.sdstate.edu/awdn/soil/soil.asp>



8-14 day

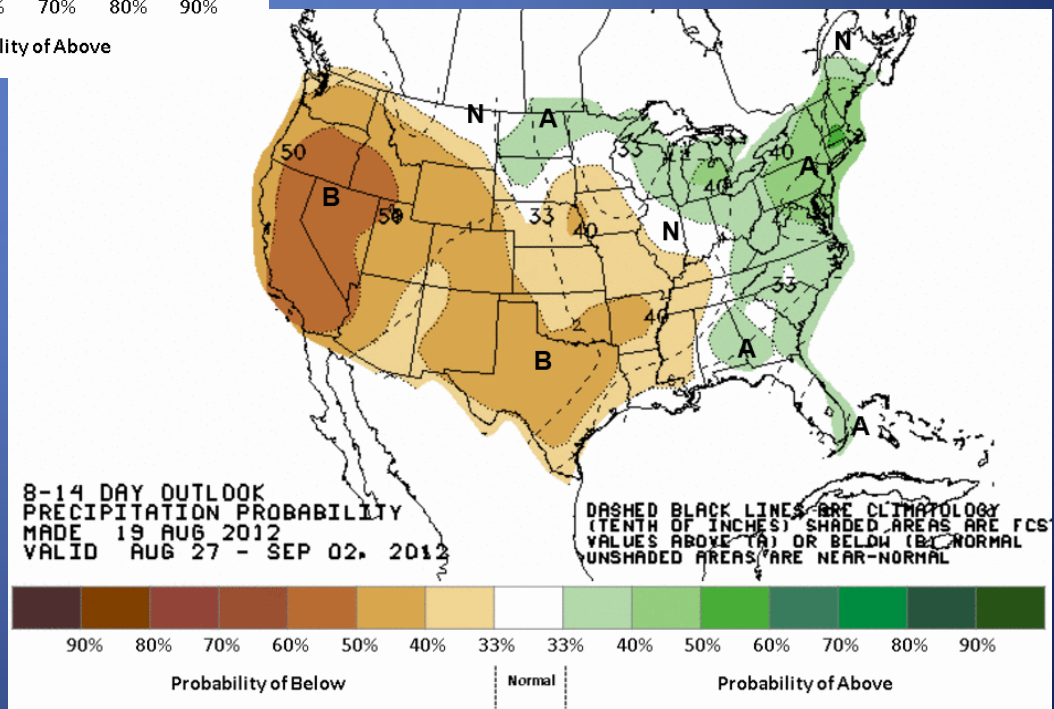
Temperature

Precipitation

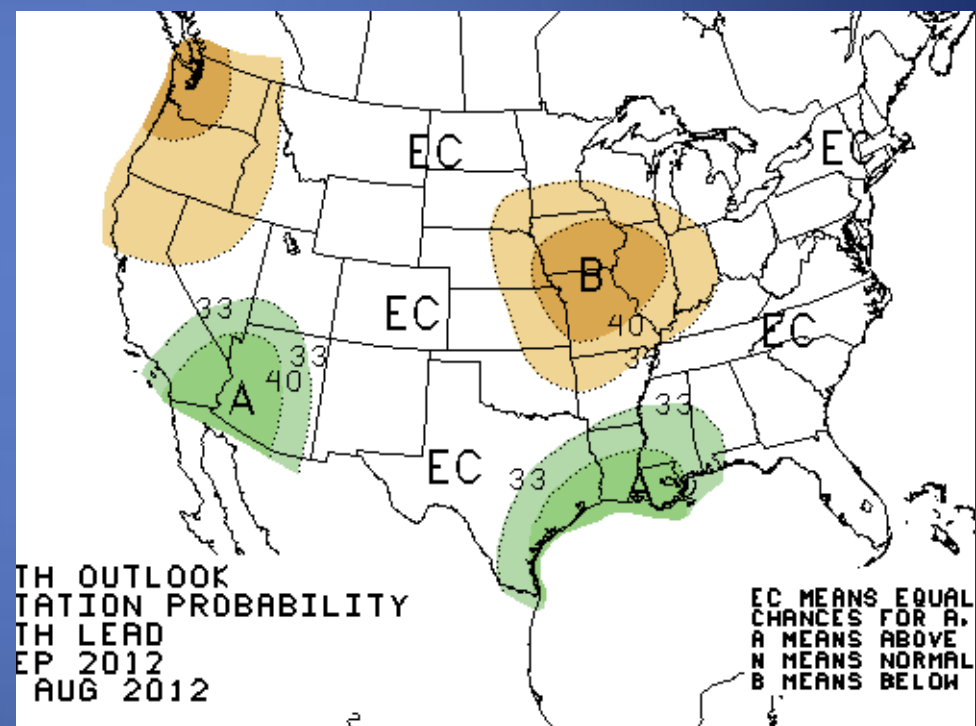
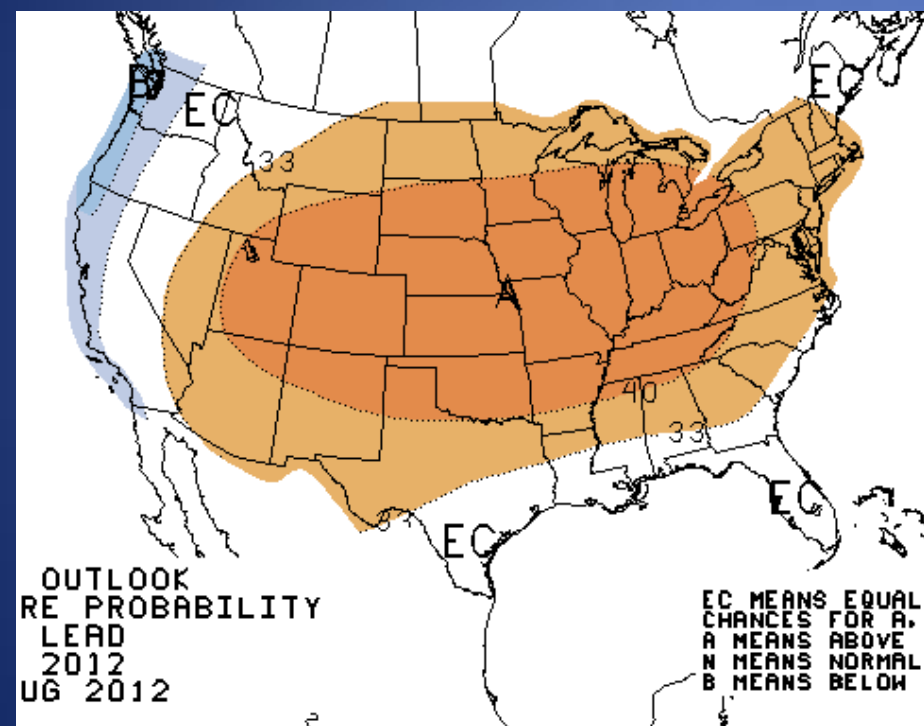


<http://www.cpc.ncep.noaa.gov>

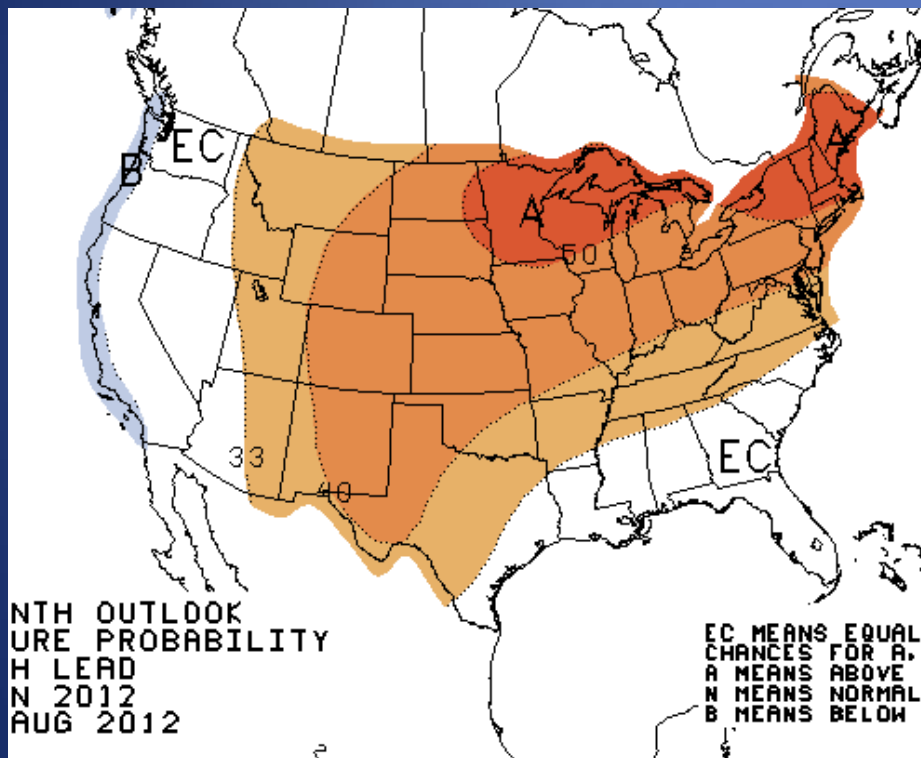
Issued daily



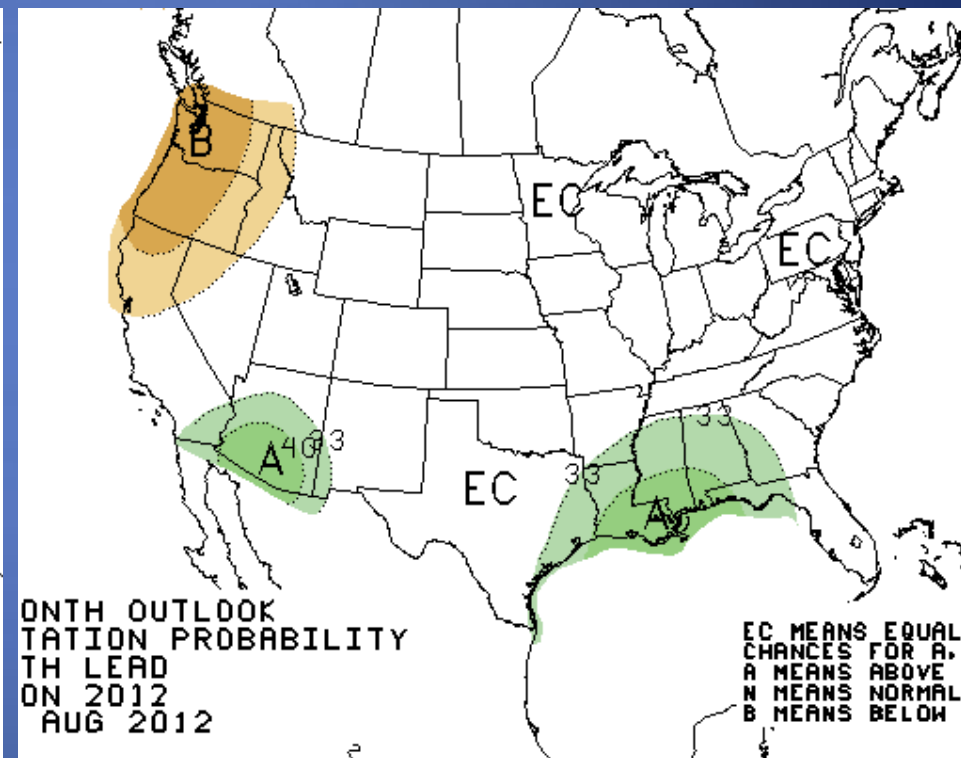
# September Temperature and Precipitation Probabilities



# 3 Month Temperature and Precipitation Probabilities (September - November)



Temperature



Precipitation

[http://www.cpc.ncep.noaa.gov/products/predictions/long\\_range/seasonal.php?lead=1](http://www.cpc.ncep.noaa.gov/products/predictions/long_range/seasonal.php?lead=1)

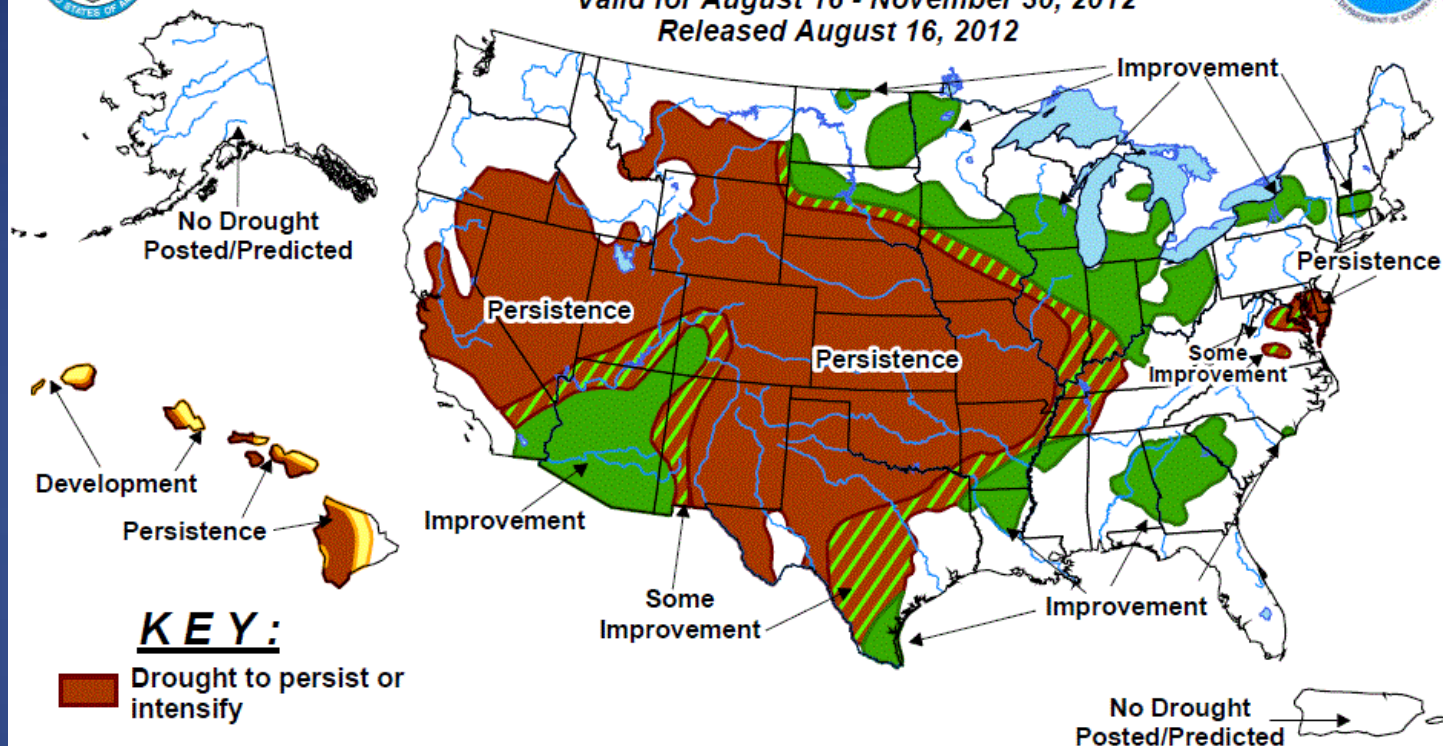


# U.S. Seasonal Drought Outlook

## Drought Tendency During the Valid Period

Valid for August 16 - November 30, 2012

Released August 16, 2012



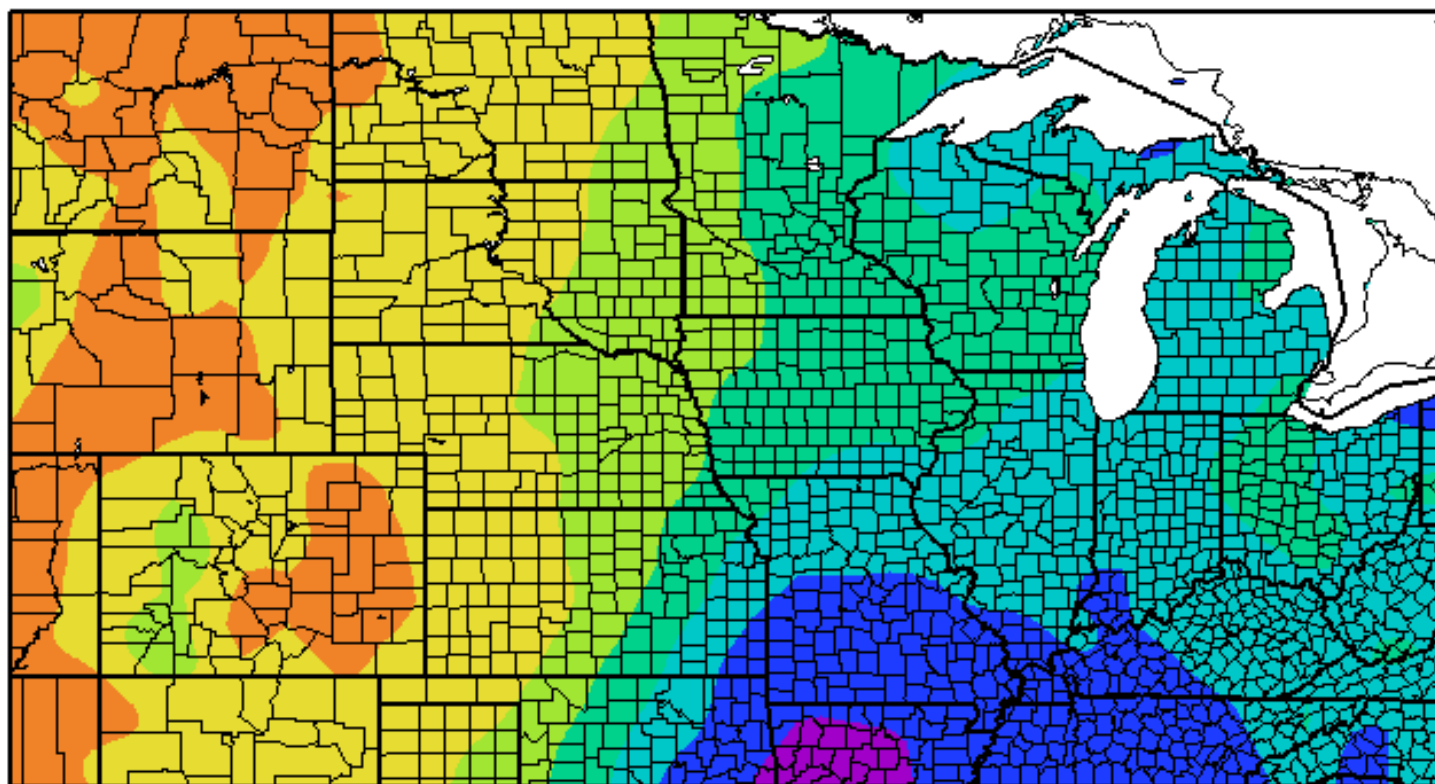
### KEY:

- Drought to persist or intensify
- Drought ongoing, some improvement
- Drought likely to improve, impacts ease
- Drought development likely

Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Short-term events -- such as individual storms -- cannot be accurately forecast more than a few days in advance. Use caution for applications -- such as crops -- that can be affected by such events. "Ongoing" drought areas are approximated from the Drought Monitor (D1 to D4 intensity). For weekly drought updates, see the latest U.S. Drought Monitor. NOTE: the green improvement areas imply at least a 1-category improvement in the Drought Monitor intensity levels, but do not necessarily imply drought elimination.



## Normal Fall Precipitation (in)



# Drought Outlook Summary

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  - Soybeans seemingly OK
  - Winter wheat planting?
- Transitioning to water/environmental drought
- New Outlooks – a little optimism
- Watching El Nino

